

IN THE CLAIMS

Please amend claims 1, 27, 78, 80, and 104. All claims are reproduced below.

1. (Currently amended) A printer for printing time-based media, the printer comprising:
 - a communication interface for receiving time-based media data from a media source;
 - a processor for performing a multimedia function on the time-based media data to identify a portion of the time-based media data corresponding to criteria received from a user ~~obtain an electronic image and associated print data;~~
 - a user interface, communicatively coupled to the processor, including:
 - a display, for providing data to ~~[[a]]~~ the user;
 - an input device, for receiving data from the user;
 - a first output device for receiving the ~~associated print data~~ identified portion of the time-based media data from the processor and producing output on a printer; and
 - a second output device coupled to the processor for receiving the electronic ~~image~~ identified portion of the time-based media and producing an electronic output from the image.
2. (Original) The printer of claim 1 wherein the multimedia function includes selecting a range of audio data in response to received input from the user.
3. (Original) The printer of claim 1 wherein the multimedia function includes applying audio event detection to the time-based media data.
4. (Original) The printer of claim 3 wherein the multimedia function further includes determining a confidence level associated with the audio event detection.

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5. (Original) The printer of claim 1 wherein the multimedia function includes applying a speaker segmentation function to the time-based media data.

6. (Original) The printer of claim 1 or 5 wherein the multimedia function includes applying a speaker recognition function to the time-based media data.

7. (Original) The printer of claim 1 wherein the multimedia function includes applying a sound source localization function to the time-based media data.

8. (Original) The printer of claim 7 wherein the multimedia function further includes applying audio event detection to the time-based media data.

9. (Original) The printer of claim 1 wherein the multimedia function includes applying a speech recognition function to the time-based media data.

10. (Original) The printer of claim 9 wherein the multimedia function includes applying a profile analysis function to the time-based media data.

11. (Original) The printer of claim 9 wherein the multimedia function includes applying an audio event detection function to the time-based media data.

12. (Original) The printer of claim 11 wherein the multimedia function further includes applying a speaker recognition function to the time-based media data.

13. (Original) The printer of claim 11 wherein the multimedia function further includes applying a speaker segmentation function to the time-based media data.

14. (Original) The printer of claim 11 wherein the multimedia function further includes applying a sound localization function to the time-based media data.

15. (Original) The printer of claim 1 wherein the multimedia function includes selecting a range of video data in response to received input from the user.

16. (Original) The printer of claim 1 wherein the multimedia function includes applying a video event detection function to the time-based media data.

17. (Original) The printer of claim 1 wherein the multimedia function includes applying a color histogram analysis function to the time-based media data.

18. (Original) The printer of claim 1 wherein the multimedia function includes applying a face detection function to the time-based media data.

19. (Original) The printer of claim 18 wherein the multimedia function includes applying a clustering function to the time-based media data to merge multiple instances of a face into a representative face image.

20. (Original) The printer of claim 1 wherein the multimedia function includes applying a face recognition function to the time-based media data.

21. (Original) The printer of claim 1 wherein the multimedia function includes applying an optical character recognition function to the time-based media data.

22. (Original) The printer of claim 21 wherein the multimedia function further includes applying a clustering function to the time-based media data to merge similar results of the optical character recognition.

23. (Original) The printer of claim 1 wherein the multimedia function includes applying a motion analysis function to the time-based media data.

24. (Original) The printer of claim 1 or claim 23 wherein the multimedia function includes applying a distance estimation function to the time-based media data.

25. (Original) The printer of claim 1 wherein the multimedia function includes applying foreground/background segmentation function to the time-based media data.

26. (Original) The printer of claim 1 wherein the multimedia function includes applying a scene segmentation function to the time-based media data.

27. (Currently amended) The printer of claim 26 wherein the multimedia function further includes applying a face recognition ~~recognition~~ function to the time-based media data.

28. (Original) The printer of claim 26 wherein the multimedia function further includes applying a face detection function to the time-based media data.

29. (Original) The printer of claim 26 wherein the multimedia function includes applying an optical character recognition function to the time-based media data.

30. (Original) The printer of claim 29 wherein the multimedia function further includes applying a face recognition function to the time-based media data.

31. (Original) The printer of claim 29 wherein the multimedia function includes applying a face detection function to the time-based media data.

32. (Original) The printer of claim 1 wherein the multimedia function includes applying an automobile recognition function to the time-based media data.

33. (Original) The printer of claim 32 wherein the multimedia function further

includes applying a motion analysis function to the time-based media data.

34. (Original) The printer of claim 1 wherein the multimedia function includes applying a license plate recognition function to the time-based media data.

35. (Original) The system of claim 1 wherein the multimedia function includes applying a visual inspection function to the time-based media data.

36. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a compact disc (CD) device.

37. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a digital video disc (DVD) device.

38. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control an audio tape device.

39. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a video tape device.

40. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a multimedia server.

41. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control encryption hardware.

42. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control audio sound localization hardware.

43. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control motion detection hardware.

44. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a MIDI player.

45. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a cellular telephone.

46. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a two-way radio.

47. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a world wide web display.

48. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a climate sensor.

49. (Original) The printer of claim 1 wherein the user interface is configured to allow a user to control a radio receiver.

50. (Original) The printer of claim 1 wherein the processor is further configured to display results of the multimedia function on the display of the user interface.

51. (Original) The printer of claim 1 wherein the second output device is a DVD drive.

52. (Original) The printer of claim 1 wherein the second output device is a CD drive.

53. (Original) The printer of claim 1 wherein the second output device is an audio tape drive.

54. (Original) The printer of claim 1 wherein the second output device is a video cassette device.

55. (Original) The printer of claim 1 wherein the second output device is a removable media device.

56. (Original) The printer of claim 1 wherein the second output device is an embedded audio recorder.

57. (Original) The printer of claim 1 wherein the second output device is an embedded video recorder.

58. (Original) The printer of claim 1 wherein the second output device is a non-volatile storage device.

59. (Original) The printer of claim 1 wherein the second output device is an embedded multimedia server.

60. (Original) The printer of claim 1 wherein the second output device is audio encryption hardware.

61. (Original) The printer of claim 1 wherein the second output device is video encryption hardware.

62. (Original) The printer of claim 1 wherein the second output device is audio sound localization hardware.

63. (Original) The printer of claim 1 wherein the second output device is a cellular telephone.

64. (Original) The printer of claim 1 wherein the second output device is a two-way radio.

65. (Original) The printer of claim 1 wherein the second output device is a world-wide web display.

66. (Original) The printer of claim 1 wherein the second output device is a radio receiver for receiving AM signals.

67. (Original) The printer of claim 1 wherein the second output device is a radio receiver for receiving FM signals.

68. (Original) The printer of claim 1 wherein the second output device is a radio receiver for receiving short wave signals.

69. (Original) The printer of claim 1 wherein the second output device is a satellite radio receiver.

70. (Original) The printer of claim 1 wherein the second output device is a weather alert receiver.

71. (Original) The printer of claim 1 wherein the second output device is an emergency alert monitor for receiving emergency broadcast system alerts.

72. (Original) The printer of claim 1 wherein the second output device is hardware for performing VGA screen captures.

73. (Original) The printer of claim 1 wherein the second output device is hardware for performing audio capture.

74. (Original) The printer of claim 1 wherein the second output device is hardware for capturing data from an electronic pen.

75. (Original) The printer of claim 1 wherein the second output device is a disposable media writer.

76. (Original) The printer of claim 1 wherein the second output device is a flash memory device.

77. (Original) The printer of claim 1 wherein the second output device is a wireless device.

78. (Currently amended) A method for printing time-based media, the method comprising:

receiving time-based media data from a media source;

receiving user input, ~~the user input specifying a user selection of a multimedia function, the multimedia function including criteria to be applied to time-based media data to perform on the time-based media;~~

performing the ~~specified~~ multimedia function on the time-based media data to ~~obtain an electronic image and associated print data~~ identify a portion of the time-based media data matching the included criteria;

producing output on a printer ~~from the associated print data from the processor and identified portion of the time-based media data;~~ and

producing an electronic output ~~from the electronic image of the identified portion of the time-based media data.~~

79. (Original) The method of claim 78 wherein the multimedia function includes selecting a range of audio data in response to received input from the user.

80. (Currently amended) The method of claim ~~[[1]]~~ 78 wherein the multimedia function includes applying audio event detection to the time-based media data.

81. (Original) The method of claim 80 wherein the multimedia function further includes determining a confidence level associated with the audio event detection.

82. (Original) The method of claim 78 wherein the multimedia function includes applying a speaker segmentation function to the time-based media data.

83. (Original) The method of claim 78 or 82 wherein the multimedia function includes applying a speaker recognition function to the time-based media data.

84. (Original) The method of claim 78 wherein the multimedia function includes applying a sound source localization function to the time-based media data.

85. (Original) The method of claim 84 wherein the multimedia function further includes applying audio event detection to the time-based media data.

86. (Original) The method of claim 78 wherein the multimedia function includes applying a speech recognition function to the time-based media data.

87. (Original) The method of claim 86 wherein the multimedia function includes applying a profile analysis function to the time-based media data.

88. (Original) The method of claim 86 wherein the multimedia function includes applying an audio event detection function to the time-based media data.

89. (Original) The method of claim 88 wherein the multimedia function further includes applying a speaker recognition function to the time-based media data.

90. (Original) The method of claim 88 wherein the multimedia function further includes applying a speaker segmentation function to the time-based media data.

91. (Original) The method of claim 88 wherein the multimedia function further includes applying a sound localization function to the time-based media data.

92. (Original) The method of claim 78 wherein the multimedia function includes selecting a range of video data in response to received input from the user.

93. (Original) The method of claim 78 wherein the multimedia function includes applying a video event detection function to the time-based media data.

94. (Original) The method of claim 78 wherein the multimedia function includes applying a color histogram analysis function to the time-based media data.

95. (Original) The method of claim 78 wherein the multimedia function includes applying a face detection function to the time-based media data.

96. (Original) The method of claim 95 wherein the multimedia function includes applying a clustering function to the time-based media data to merge multiple instances of a face into a representative face image.

97. (Original) The method of claim 78 wherein the multimedia function includes applying a face recognition function to the time-based media data.

98. (Original) The method of claim 78 wherein the multimedia function includes

applying an optical character recognition function to the time-based media data.

99. (Original) The method of claim 98 wherein the multimedia function further includes applying a clustering function to the time-based media data to merge similar results of the optical character recognition.

100. (Original) The method of claim 78 wherein the multimedia function includes applying a motion analysis function to the time-based media data.

101. (Original) The method of claim 78 or claim 100 wherein the multimedia function includes applying a distance estimation function to the time-based media data.

102. (Original) The method of claim 78 wherein the multimedia function includes applying foreground/background segmentation function to the time-based media data.

103. (Original) The method of claim 78 wherein the multimedia function includes applying a scene segmentation function to the time-based media data.

104. (Currently amended) The method of claim 103 wherein the multimedia function further includes applying a face recognition ~~recognition~~ function to the time-based media data.

105. (Original) The method of claim 103 wherein the multimedia function further includes applying a face detection function to the time-based media data.

106. (Original) The method of claim 103 wherein the multimedia function includes applying an optical character recognition function to the time-based media data.

107. (Original) The method of claim 106 wherein the multimedia function further includes applying a face recognition function to the time-based media data.

108. (Original) The method of claim 106 wherein the multimedia function includes applying a face detection function to the time-based media data.

109. (Original) The method of claim 78 wherein the multimedia function includes applying an automobile recognition function to the time-based media data.

110. (Original) The method of claim 109 wherein the multimedia function further includes applying a motion analysis function to the time-based media data.

111. (Original) The method of claim 78 wherein the multimedia function includes applying a license plate recognition function to the time-based media data.

112. (Original) The method of claim 78 wherein the multimedia function includes applying a visual inspection function to the time-based media data.

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